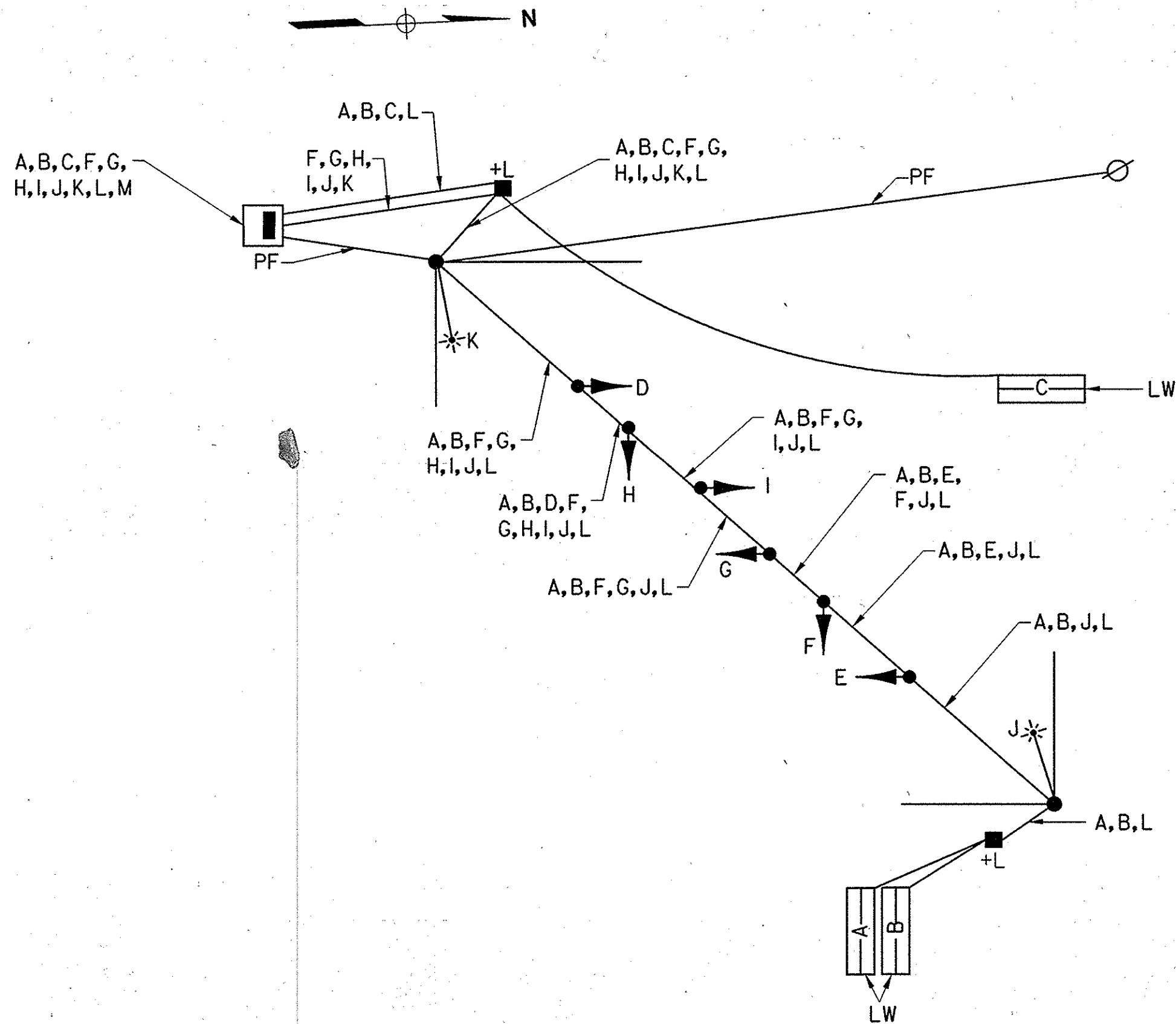


PHASE CHART

	1	2	3	4	5	6	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 1 + 5	R	R	G	G	R	G	←
1 + 5 CHANGE	R	R	G	Y	R	Y	←
PHASE 2 + 6	G	G	G	G	R	R	→
2 + 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↑
FLASHING	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↑
OPERATION	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↑

WIRING DIAGRAM



PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION TRAFFIC SIGNAL AND STREET LIGHTING AT MD 146 AND HAMPTON LANE IN BALTIMORE COUNTY. MD 146 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:

1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC ACTUATED MODE, WITH THE MD 146 APPROACHES RUNNING CONCURRENTLY AND HAMPTON LANE RUNS ALONE. LEFT TURN PHASING WILL BE PROVIDED FOR MD 146 SOUTHBOUND WITH A RIGHT TURN OVERLAP FROM HAMPTON LANE TO MD 146 NORTHBOUND.

CONTROLLER REQUIREMENTS:

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH THREE (3) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS. INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, WITH SYSTEMS PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-105.00 STANDARD NO. MD-105.103 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-105.01 STANDARD NO. MD-105.105 (SHOULDER WORK)
STANDARD NO. MD-105.02 STANDARD NO. MD-105.107 (LANE SHIFT)
STANDARD NO. MD-105.101 (FLAGGING OPERATION) STANDARD NO. MD-105.109 (LANE SHIFT)

NOTE: STANDARDS TO BE MODIFIED, BY REPLACING W21-5 SIGN WITH A W29-1 SIGN (ROAD WORK AHEAD).

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. DAVID MALKOWSKI
DISTRICT ENGINEER
PHONE: 410-321-2780

MR. RANDELL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-841-5450

MR. JOE McMAHON
UTILITY ENGINEER
PHONE: 410-321-2780

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

THE POWER COMPANY REPRESENTATIVE IS:
BALTIMORE GAS ELECTRIC COMPANY
MR. JOSEPH G. BUNCH
INDUSTRIAL / COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
7317 PARKWAY DRIVE SOUTH
HANOVER, MARYLAND 21076
410-859-9030

WIRING KEY

A,B,C } 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED) L } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
J,K } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) M } 3-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
D,E } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) LW - LOOP WIRE (NO. 14 A.W.G.)
F,G,H,I } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) PF - POWER FEED (NO. 4 A.W.G.)
+ - 3/4 IN. x 10 FT. GROUND ROD

STAGE 1A
TEMPORARY TRAFFIC SIGNALS

SS-2

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 03014600.85

MD 146 (DULANEY VALLEY ROAD) AT
I-695 RAMPS/HAMPTON LANE
SIGNAL PLAN

COUNTY: BALTIMORE

DRAWN BY: SMH
DES. BY: DLA/SMH
CHK. BY: BJH

DATE: NOVEMBER, 1998 F.A.P. NO. SEE TITLE SHEET
SCALE: N.T.S. S.H.A. NO. BA9775372

TS/STD. NO.: 454E-X1A-GI1
SHEET NO. 105 OF 155

RUMMEL, KLEPPER
& KAHL, LLP
CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY